

PIGMENTED H PRIMER

RAYSTON
products



Water-based epoxy primer

DESCRIPTION

Two-component epoxy primer suitable for concrete floorings. Impervious to liquid water but permeable to vapour, it allows an adequate substrate transpiration, preventing water accumulations and blisterings. It is delivered as a pre-dosed kit, pigmented and ready to mix and use. An unpigmented version for customer pigmentation is also available on request.

APPLICATION

Easy to apply, for all kind of indoor areas. It can be applied even in slightly moist surfaces or where some residual moisture remains.

- Interior tunnel surfaces
- Industrial floorings
- Poorly ventilated areas
- Parking decks
- Warehouses

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Chemical description	Water-based polyamine hardener	Modified epoxy resin
Physical state	Liquid	Liquid
Packaging (A+B pre-dosed kit)	Plastic container 21.4 kg 4.3 kg	Metal container 3.6 kg 0.7 kg
Non-volatile content (%)	57%	100%
Flash point	>120°C	>120°C
Colour	Pigmented	Colourless, slightly yellow

Density

Temp (°C)	Density (g/cm ³)	Temp (°C)	Density (g/cm ³)
23	1.30-1.45	25	1,14

Viscosity approximate Brookfield

Temp (°C)	Viscosity (mPa.s)	Temp (°C)	Viscosity (mPa.s)
30	1000-2000	35	60
20	1100-2500	25	170
10	3000-6000	15	375
		5	710

VOC <25g/L, <0,5% <2 g/L, 0,5%

(VOC class as per 2004/42 EC)

Mixing ratio A/B A=100, B=17 by weight
A=100, B=21 by volume

Mixture properties 1,30 g/cm³ at 23°C
800-1000 mPa.s a 23°C
Colour: pigmented or clear brown when unpigmented
Non-volatile content: 63%

Pot life

Approximate	Temperature (°C)	Pot Life (100 g/min)
	5	200
	20	150
	35	100

Storage Keep at temperatures between 10°C and 30°C. Frost sensitive. Component B may crystallize if stored for protracted periods under certain conditions. If this occurs, it can be restored to its original condition by heating it to 70 - 80 °C and stirring it thoroughly.
Use before 12 months after manufacturing date

Notes Unpigmented version is also available with the following properties:

Mixture colour: clear brown

Mixing ratio (before post-pigmentation):

A=100, B=18 by weight
A=100, B=22 by volume

Packaging:

A: Plastic container, 20 kg/3,95 kg
B: Metal container, 3,6 kg/ 0,7 kg

INFORMATION ON THE FINAL PRODUCT

Final state	Rigid, uniform film, semi-glossy
Colour	Pigmented. Available colours are RAL 1001, 3009, 5015, 6021, 7001, 7011, 9003, 9004, 1018, 3001, 6002, 8001. Other colours or unpigmented (neutral) versions available under request.
Hardness Shore	65D
Film density	1.4 g/cm ³
UV resistance	This product can change colour slightly under sunlight, with no irriment of its mechanical properties.
Adhesion	Surface: Concrete Adhesion (MPa): 4.0
Use temperature	Stable up to 80° C
Slip resistance	With quartz sand spreaded onto (0,4-0,9 mm) at 1 kg/m ³ : class 3 as per UNE EN 12633-2003
Fire classification	Bfl s1
EN13501-1:2007	
Chemical resistance	Superficial contact, 24 hours, 25°C (5=ok, 0=not recommended)

Product	Result
Peroxide	4.5
Saltwater	5
Gasoline	5
Phosphoric acid 10%	4.5
Acetic acid (2%)	5
Acetic acid (10%)	4.5
Sodium hydroxide 10%	4.5
Hydrochloric acid 2%	4.5
Hydrochloric acid 10%	4.5
Nitric acid	4.5
Sulfuric acid 5%	4.5
Sulfuric acid 20%	4.5
Ethanol 96%	5

SUPPORT REQUIREMENTS

In order to achieve a good penetration and bonding, support must be:

1. Flat and leveled (product is self-leveling)
2. Coct and cohesive (pull off test must show a minimum resistance of 1, 4 N/mm²).
3. Even and regular surface
4. Free from cracks and fissures. If any, they must be previously repaired.
5. Clean and dry, free of dust, loose particles, oils, organic residues or laitance

AMBIENTAL CONDITIONS

Application must be done at support temperatures 3°C above dew point. Air temperature must be above 5°C and relative humidity below 80%. Application temperature must be less than 40°C. Optimal temperature range is 10°C- 30°C. These temperatures must be constant throughout drying process. Application should be done with plenty of air/ventilation.

SUPPORT PREPARATION

Concrete surfaces must be previously prepared by sandblasting or any other suitable means. Remove all dust and loose material before priming.

MIXING PROCEDURES

Stir and homogenize thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogenous and fluid milky solution. Water (up tp 10%)



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may be added if deemed necessary for ease of application. Do not mix more material than the amount usable within the pot life window

APPLICATION AND RECOMMENDED AMOUNTS

Use brush, roller or airless spraying equipment. Usual consumption is 150 g/m² for each coat. If diluted with water, use same amount for each can to prevent colour variations

CURING TIME

Applications 150 g/m² thick.

Conditions	Touch dry (h)
35°C, 25%rh	2
35°C, 10% rh	2
20°C, 10% rh	10
20°C, 40%rh	15
20°C, 90%rh	20
5°C, 50% rh	48
5°C, 20% rh	30
5°C, 80% rh	60

REAPPLICATION

A second application may be done when the first one is dry to touch, and always within the first 24 hours.

RETURN TO SERVICE

The applied coating is resistant to light traffic in the first 24-48 hours, depending on ambient conditions. Maximum hardness is achieved after 7 days. Caution: contact with water when not fully cured may lead to white stains.

TOOL CLEANING

Cleaning of tools contaminated with both components can be done with water, before hardening.

SAFETY

Epoxy components of component B are potentially sensitizing. Component A is irritant. Always follow instructions provided in the Material Safety Data Sheet. As a general rule, suitable skin and eye protection must be worn. This product is intended to be used only for the uses and in the way here described. This product is to be used only by industrial or professional users. It is not suitable for DIY-type uses.

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the container still has some material left, do not mix with other product before considering the risk of potential dangerous reactions. Never mix in volumes larger than 5 litres in order to prevent a dangerous heat evolution.

OTHER INFORMATION

The information contained in this Technical Data Sheet, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" in order to determine their convenience for a specific project.

Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise.

The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

This Technical Data Sheet supersedes previous versions.



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